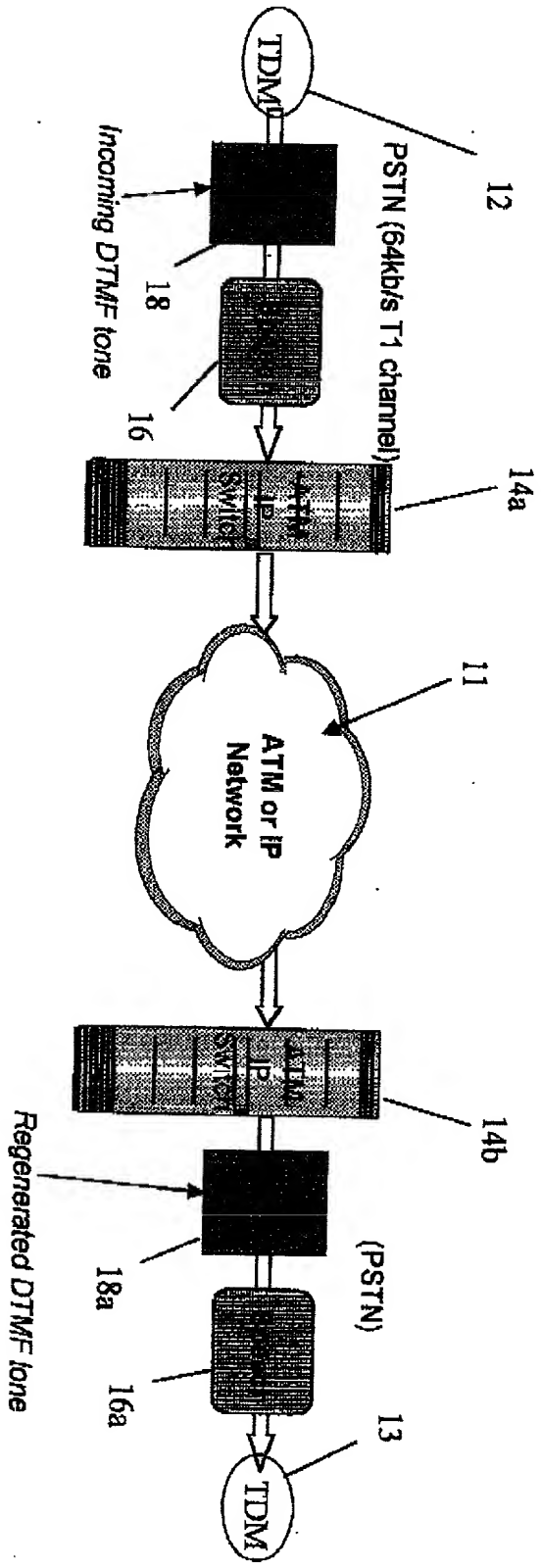

Figure 1

09758528 - 050203

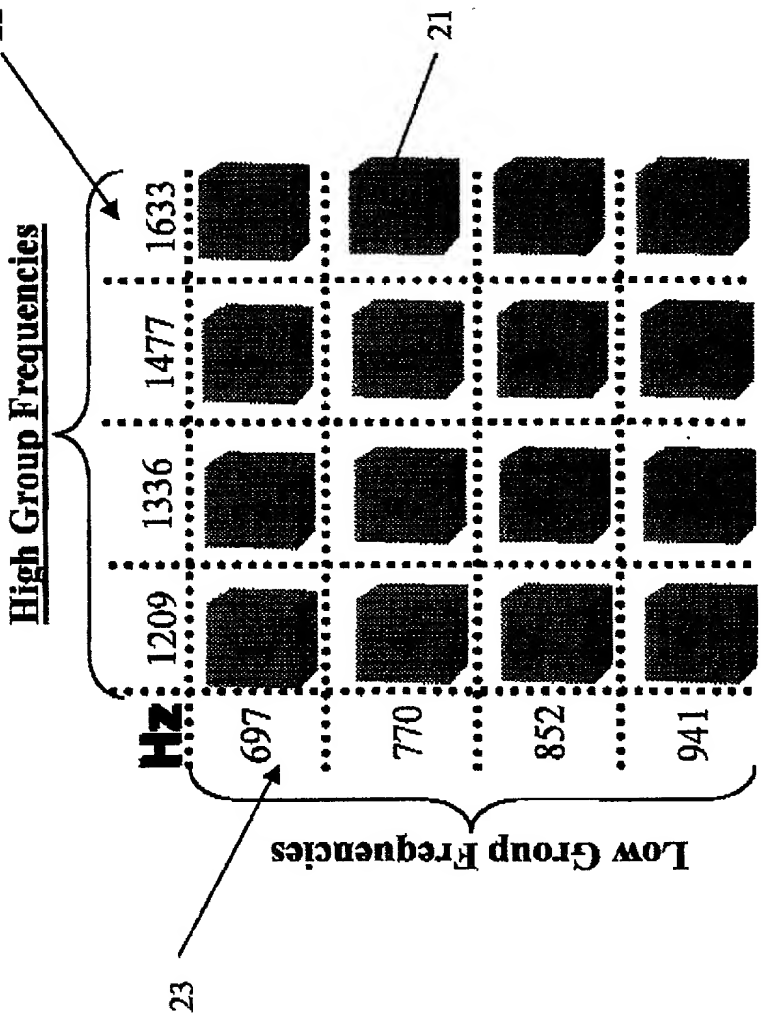
22
21
High Group Frequencies
1633
1477
1336
1209
Hz
697
770
852
941
Low Group Frequencies
23

Figure 2

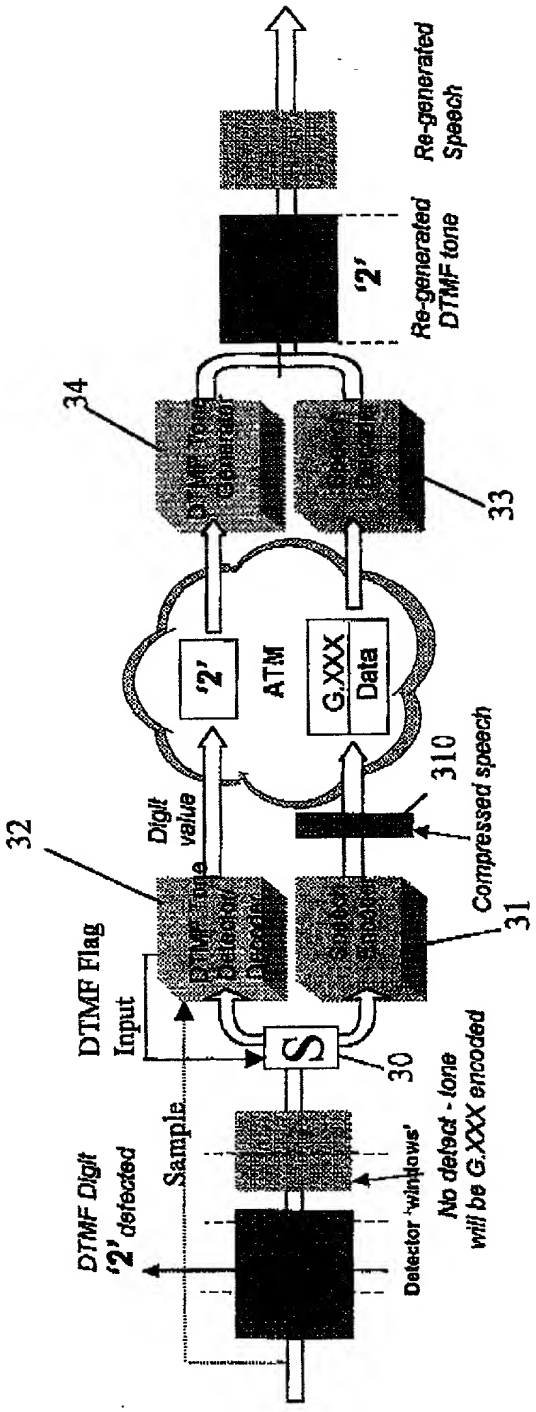
DTMF Digit '2' detected
Sample
DTMF Flag Input
DTMF Tone Detector/ Decoder
32
Digit value
'2'
ATM
G.XXX
Data
310
Compressed speech
31
S
30
Detector 'windows'
No detect - tone will be G.XXX encoded
34
DTMF Tone Generator
33
'2'
Re-generated DTMF tone
Re-generated Speech

Figure 3

8	7	6	5	4	3	2	1
Redundancy		Time Stamp					
RES		Signal Level (0 to -31dBm0)					
Digit Type		Digit Code (0, 1,2, …, b,c,d)					
Message Type = 000010							
CRC-10							

Figure 4

02 FEB '01 15:33 FROM HARLOW IP LAW GROUP TO LEE SMITH PAGE.028/033

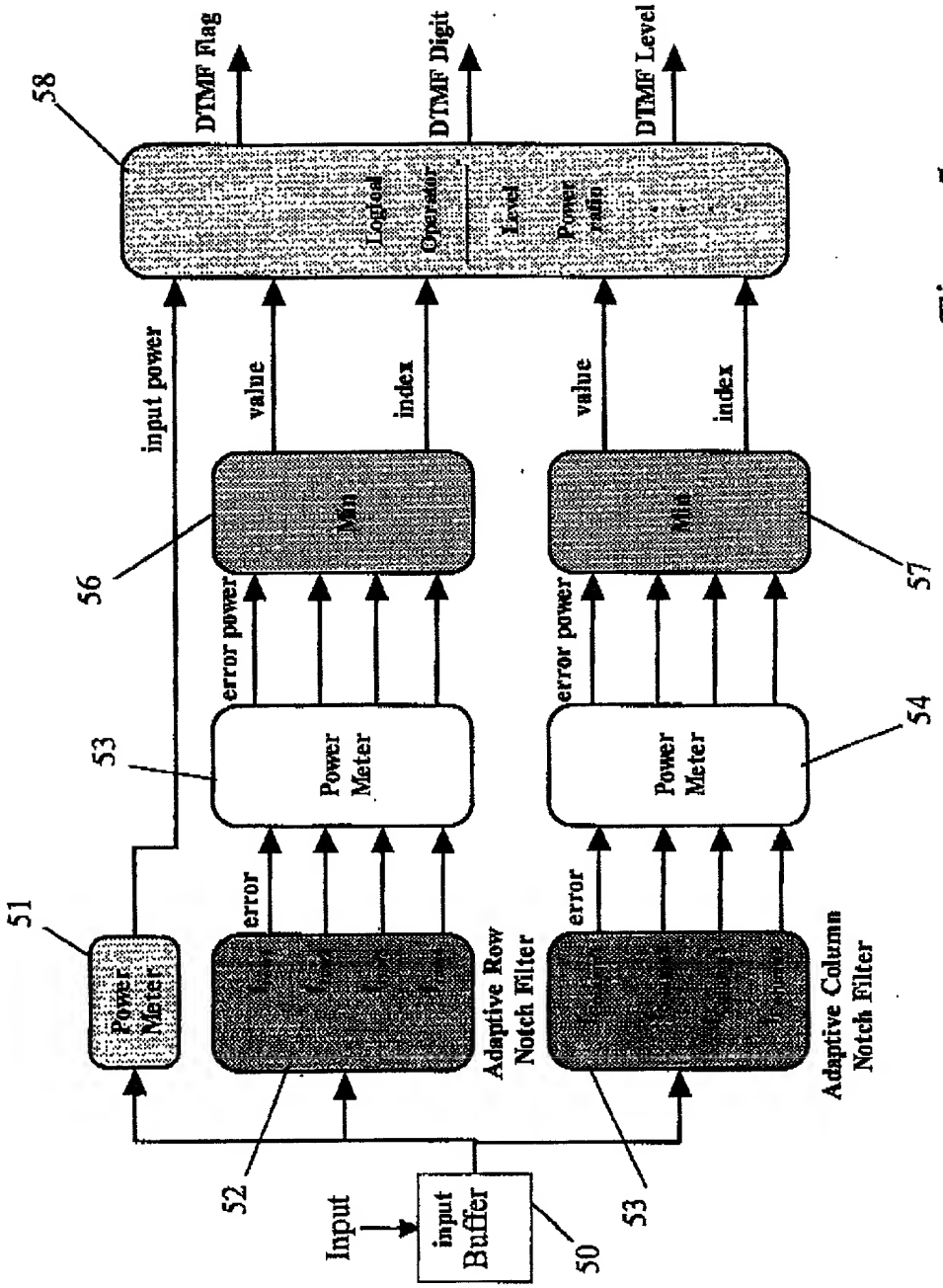
58
DTMF Flag
DTMF Digit
DTMF Level
Logical Operator
Level
Power ratio
input power
value
index
value
index
56
Min
Min
57
error power
error power
53
Power Meter
Power Meter
54
51
Power Meter
error
error
Adaptive Row Notch Filter
Adaptive Column Notch Filter
52
53
Input
input Buffer
50

Figure 5

T02E0J 0E39Z60

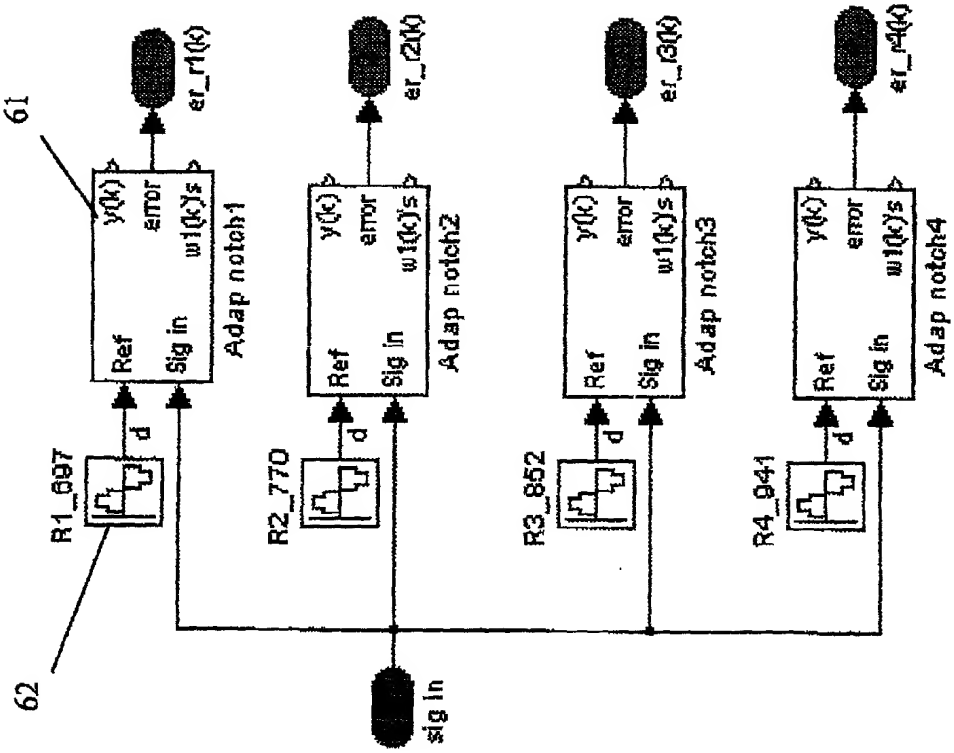

Figure 6

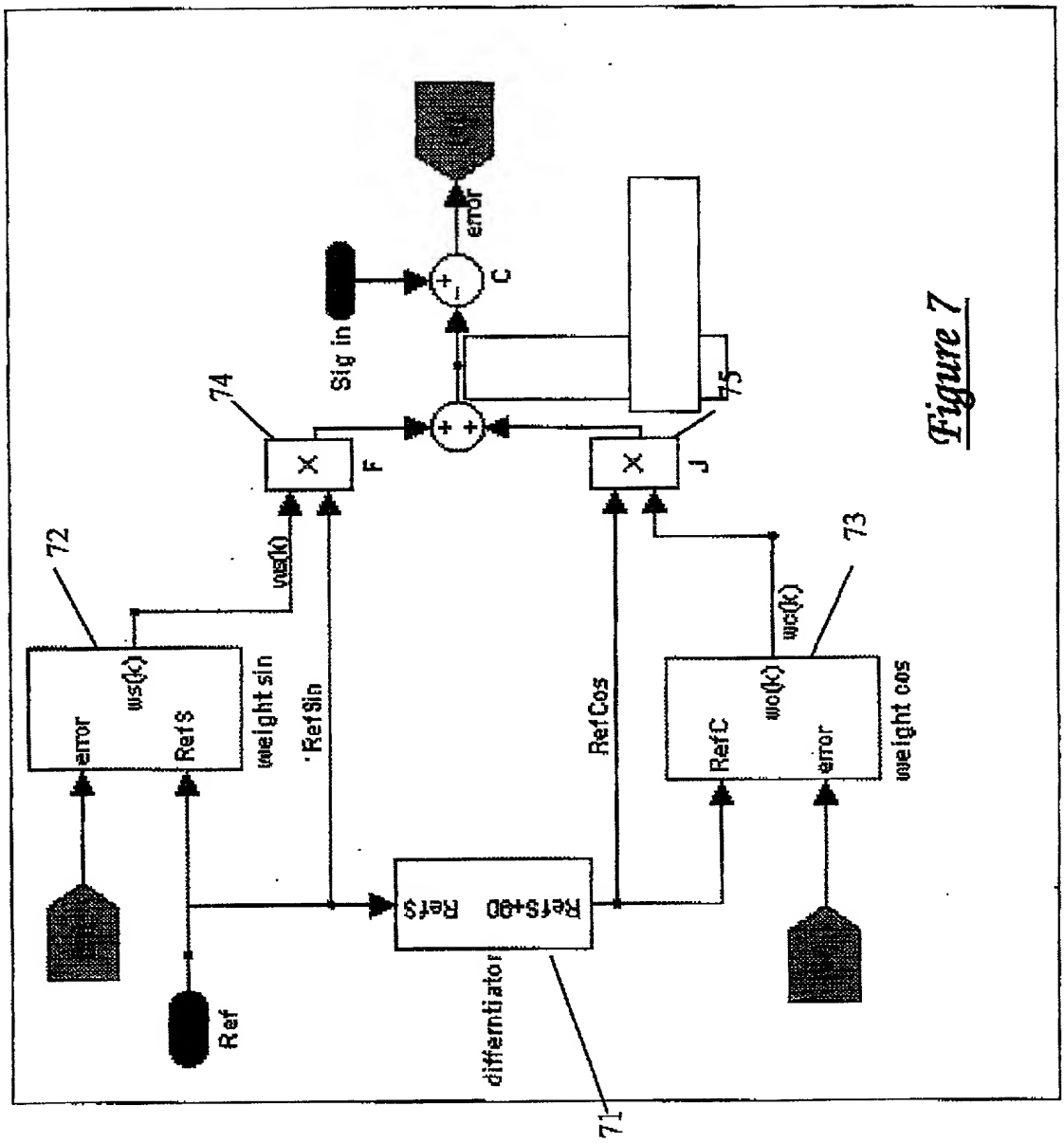
error
Sig in
C
74
F
X
75
J
X
72
ws(k)
error
RefS
weight sin
wos(k)
RefSin
RefCos
73
wo(k)
RefC
error
weight cos
RefS+90
RefS
differntiator
Ref
71

Figure 7

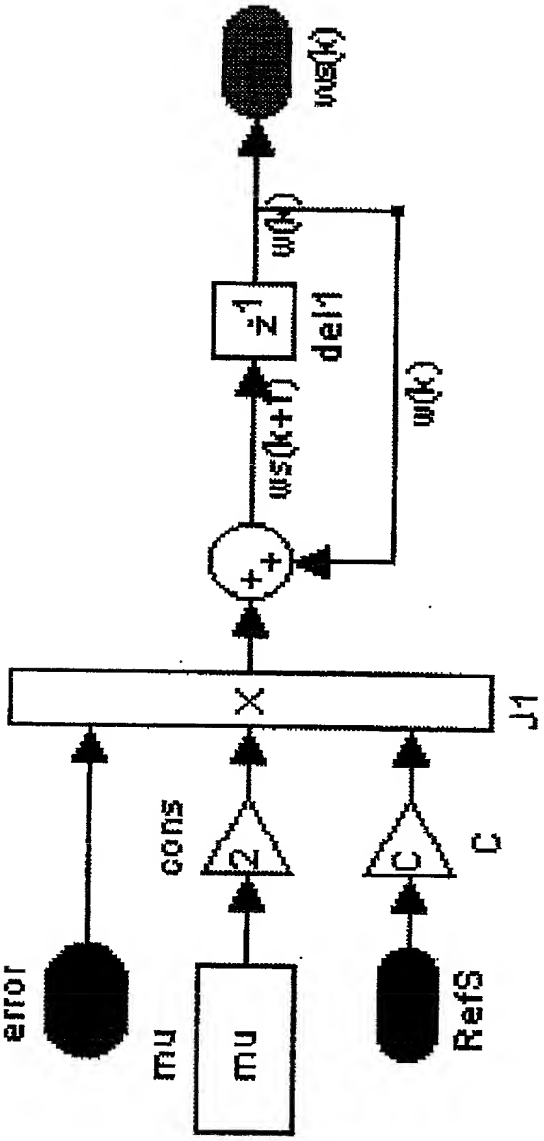

Figure 8

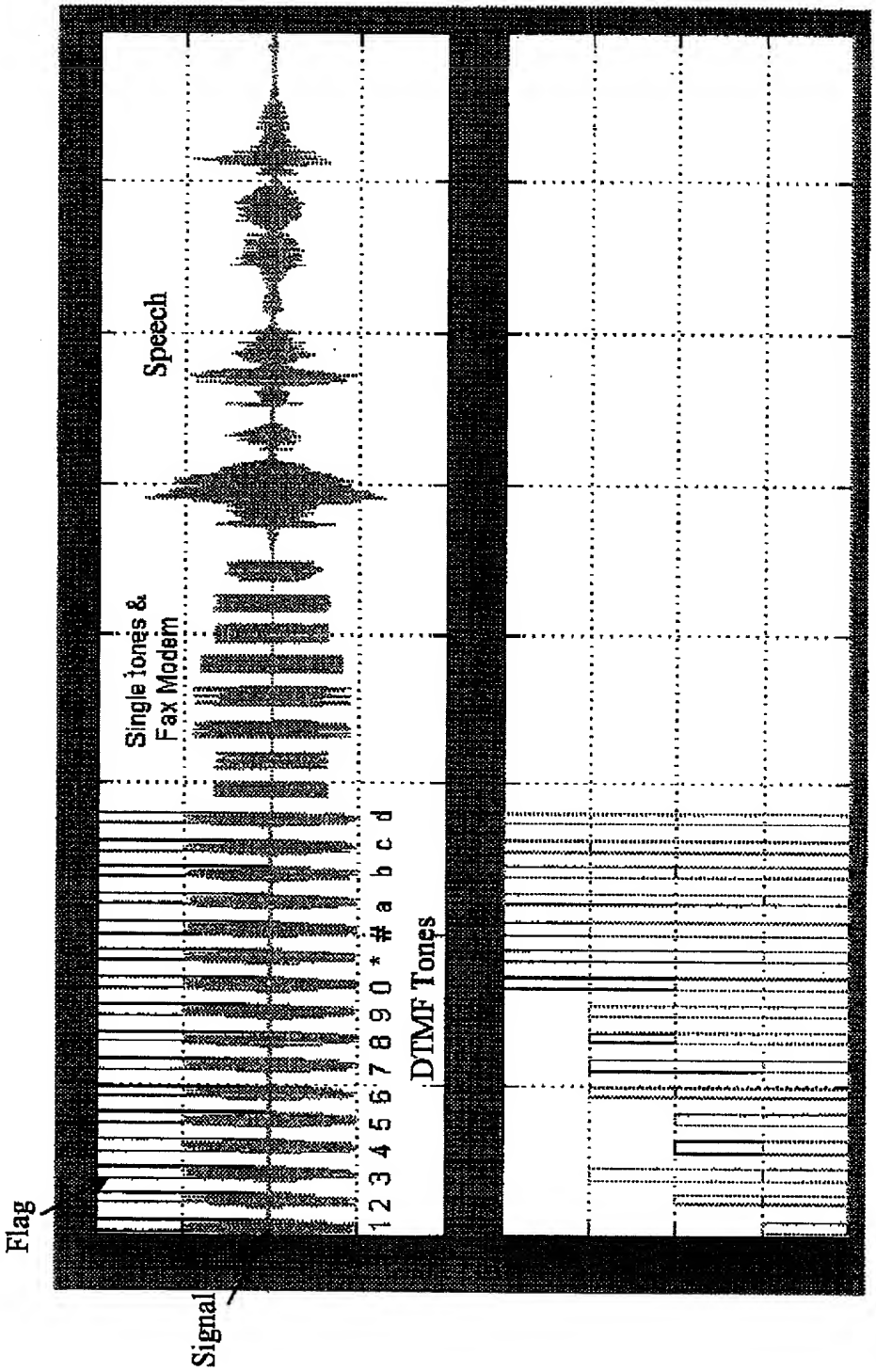
Speech
Single tones &
Fax Modem
1 2 3 4 5 6 7 8 9 0 * # a b c d
DTMF Tones
Flag
Signal

Figure 9